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REAR PRESSURE CONTROL AND REAR DYNAMIC
PROPORTIONING IN A VEHICLE BRAKE SYSTEM

ABSTRACT OF THE DISCLOSURE

10 An apparatus and method are provided for controlling a rear brake hydraulic
circuit having a fluid storage element and a master cylinder supplying a volume of
pressurized brake fluid to the rear brakes during the braking cycle in a pump-less anti-
lock brake apparatus controlling the rotational speeds, during a braking cycle, of only the
rear brakes of a vehicle having at least one front wheel, at least one rear wheel, and front
15 and rear brakes acting on the front and rear wheels respectively, by determining whether
the vehicle is operating lightly loaded at a light vehicle weight (LVW) or heavily loaded
at a gross vehicle weight (GVW), providing rear dynamic proportioning (RDP) when a
predetermined deceleration rate is exceeded during the braking event with the vehicle
operating at LVW, and inhibiting RDP when the vehicle is operating at GVW. The
20 apparatus and method also provide rear pressure control (RPC) during anti-lock braking.